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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/540,108	06/26/2006	Bo Rud Nielsen	P70653US0	1450	
136 JACOBSON H	7590 04/01/200 IOLMAN PLLC	EXAMINER			
400 SEVENTH STREET N.W.			ELLIS, SUEZU Y		
SUITE 600 WASHINGTO	N. DC 20004		ART UNIT	PAPER NUMBER	
			1615		
			MAIL DATE	DELIVERY MODE	
			04/01/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/540,108	NIELSEN ET AL.	
Examiner	Art Unit	
Suezu Ellis	1615	

Office Action Summary	Examiner	Art Unit	l				
	Suezu Ellis	1615	1				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of irms may be available under the provisions of 37 CFR 1.15 after SIX (6) MCWT15 from the mailing date of the communication. - Failure to reply within the safe or extended period for reply will by statute. Any reply received by the Office later than three months after the mailing earned patient form adjustment. See 37 CFR 1.70(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this of D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 20 Ju	ne 2005.						
·- · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						
·= ·-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
· _							
	(a) Of the characteristics are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 11-21 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
., _ ,							
9) The specification is objected to by the Examine		Evaminor					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti			ED 1 121(d)				
11) The oath or declaration is objected to by the Ex							
	annior. Note the attached office	Action of format	10 102.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
 Certified copies of the priority documents 	1. Certified copies of the priority documents have been received.						
Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior	ity documents have been receive	ed in this National	Stage				
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	Interview Summary Paper No(s)/Mail Da						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal P						

Paper No(s)/Mail Date 3/6/06.

6) Other: ____.

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on March 6, 2006 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Objections

Claim 19 is objected to because of the following informalities:

Claim 19 recites "The medical device according to a medical device comprising...". This appears redundant. Examiner suggests rewording to "A medical device comprising..." instead.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 11-17 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 11, it is unclear what applicant means by providing a polymer solution comprising the balance of a vehicle. It is unclear what a balance of a vehicle is. Please clarify.

Claims not specifically addressed are indefinite due to their dependency.

Claim 20 provides for the use of a polymer solution for the preparation of a crosslinked hydrophilic coating, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 20 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products*, *Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madsen (US 2002/0037943) in view of

With respect to claims 11, 17, 19 and 20, Madsen discloses in Examples 2 and 3. a method for the preparation of a cross-linked hydrophilic coating of a hydrophilic polymer on a substrate polymer surface of a medical device (catheter), said method comprising the steps of (i) providing a medical device comprising a substrate polymer having the substrate polymer surface, (ii) providing a polymer solution comprising 1-20% by weight of a hydrophilic polymer and 0-5% by weight of additive(s), (iii) applying said polymer solution to said substrate polymer surface, (iv) evaporating at least a part of the vehicle from said polymer solution present on said substrate polymer surface, and curing said hydrophilic polymer (Example 1). Madsen further discloses providing a plasticizer [0070], however fails to expressly disclose the polymer solution comprises a vehicle with plasticizing effect on the hydrophilic polymer, said vehicle comprising at least one plasticizer having a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHq, and a Hansen δ_H parameter of less than 20. However, it is well known in the art to coat a catheter with a polymer utilizing triethyl citrate as the plasticizer, as taught by Hunter et al. [0095], [0109]. Since applicant's example includes the same plasticizer, examiner interprets the triethyl citrate has the same properties as claimed. It would have been obvious to one of ordinary skill in the art to modify the type of plasticizer used in order to attain a coating with the desired properties (desired

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flexibility). Further, it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

With respect to claim 12, the modified Madsen discloses the polymer solution is applied to said substrate polymer surface in one single application step (dipping) (Examples 2 and 3)

With respect to claim 13, the modified Madsen discloses the vehicle comprises at least one solvent (ethanol) (Examples 2 and 3).

With respect to claim 14, the modified Madsen discloses the polymer solution has the ranges claimed, with the exception of the content range of plasticizer. However, it would have been obvious to one of ordinary skill in the art to modify the desired range of the plasticizer depending on the desired properties (e.g. amount of flexibility of the coating). Further, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

With respect to claim 15, the modified Madsen discloses the substrate polymer is polyurethane (Example 2).

With respect to claims 16 and 21, the modified Madsen discloses the hydrophilic polymer is polyvinyl pyrrolidone (Examples 2 and 3).

With respect to claim 18, Madsen discloses a medical device comprising a hydrophilic coating of a cross-linked hydrophilic polymer, wherein the coating comprises a hydrophilic plasticizer ([0070], Examples 2 and 3). Madsen fails to expressly disclose

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the plasticizer has a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen δ_H parameter of less than 20. However, it is well known in the art to coat a catheter with a polymer utilizing triethyl citrate as the plasticizer, as taught by Hunter et al. [0095], [0109]. Since applicant's example includes the same plasticizer, examiner interprets the triethyl citrate has the same properties as claimed. It would have been obvious to one of ordinary skill in the art to modify the type of plasticizer used in order to attain a coating with the desired properties (desired flexibility). Further, it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Telephone/Fax Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suezu Ellis whose telephone number is (571) 272-2868. The examiner can normally be reached on 8:30am-5pm (Monday-Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sharon Kennedy can be reached on (571) 272-4948. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Application/Control Number: 10/540,108 Page 7

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SE

/Sharon E. Kennedy/ Primary Examiner, Art Unit 1615